

Project Title:	Electrocatalytic Studies of Toxic Pollutant Activation
PI:	Rusling, James F.
Institution:	University Of Connecticut Storrs
Grant Number:	R01ES003154

These search results have not been confirmed by NIEHS and are therefore, not official. They are to be used only for general information and to inform the public and grantees on the breadth of research funded by NIEHS.

Viewing 95 publications

Print version (PDF)

(http://www.niehs.nih.gov/portfolio/index.cfm/portfolio/grantpubdetail/grant_number/R01ES003154/format/word)

Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
Accurate DNA fragment sizing by capillary electrophoresis with laser-induced fluorescence array for ...	Fundador, Erwin V; Choudhary, Dharamainder; Schenkman, John B; Rusling, James F	Anal Chem (2008 Mar 15)	80 / 2212-21	PubMed Citation
An amperometric biosensor with human CYP3A4 as a novel drug screening tool.	Joseph, Shiba; Rusling, James F; Lvov, Yuri M; Friedberg, Thomas; Fuhr, Uwe	Biochem Pharmacol (2003 Jun 1)	65 / 1817-26	PubMed Citation
Analyzing chemical data with computers: errors & pitfalls.	Shukla, S S; Rusling, J F	Anal Chem (1984 Oct)	56 / 1347A-1348A, 1350A, 1354A passim	PubMed Citation
Applications of polyion films containing biomolecules to sensing toxicity.	Rusling, J F; Zhou, L; Munge, B; Yang, J; Estavillo, C; Schenkman, J B	Faraday Discuss (2000)	/ 77-87; discussion 171-90	PubMed Citation
Assessing DNA Damage from Enzyme-Oxidized Single-Walled Carbon Nanotubes.	Pan, Shenmin; Sardesai, Naimish P; Liu, Hongyun; Rusling, James F	Toxicol Res (Camb) (2013 Nov 1)	2 / 375-378	PubMed Citation
Bicontinuous microemulsions as media for electrochemical studies.	Iwunze, M O; Sucheta, A; Rusling, J F	Anal Chem (1990 Mar 15)	62 / 644-9	PubMed Citation
Biochemical applications of ultrathin films of enzymes, polyions and DNA.	Rusling, James F; Hvastkovs, Eli G; Hull, Dominic O; Schenkman, John B	Chem Commun (Camb) (2008 Jan 14)	/ 141-54	PubMed Citation
Bioelectronic delivery of electrons to cytochrome P450 enzymes.	Krishnan, Sadagopan; Schenkman, John B; Rusling, James F	J Phys Chem B (2011 Jul 7)	115 / 8371-80	PubMed Citation
Carbon nanotube microwell array for sensitive electrochemiluminescent detection of cancer biomarker ...	Sardesai, Naimish P; Barron, John C; Rusling, James F	Anal Chem (2011 Sep 1)	83 / 6698-703	PubMed Citation

Characterizing metabolic inhibition using electrochemical enzyme/DNA biosensors.	Hull, Dominic O; Bajrami, Besnik; Jansson, Ingela; Schenkman, John B; Rusling, James F	Anal Chem (2009 81 / 716-24 Jan 15)	PubMed Citation
Characterizing protein modifications by reactive metabolites using magnetic bead bioreactors and LC- ...	Li, Dandan; Fu, You-Jun; Rusling, James F	Chem Commun (Camb) (2015 Mar 18)	PubMed Citation
Charge-dependent sidedness of cytochrome P450 forms studied by quartz crystal microbalance and atomi ...	Schenkman, J B; Jansson, I; Lvov, Y; Rusling, J F; Boussaad, S; Tao, N J	Arch Biochem Biophys (2001 Jan 1)	PubMed Citation
CHEMICAL SELECTIVITY OF NUCLEOBASE ADDUCTION RELATIVE TO IN VIVO MUTATION SITES ON EXON 7 FRAGMENT O ...	Malla, Spundana; Kadimisetty, Karteek; Fu, You-Jun; Choudhary, Dharamainder; Jansson, Ingela; Schenkman, John B; Rusling, James F	Chem Sci (2015 6 / 5554-5563 Oct 1)	PubMed Citation
Colloids, helices, and patterned films made from heme proteins and manganese oxide.	Gao, Qiuming; Suib, Steven L; Rusling, James F	Chem Commun (Camb) (2002 Oct 7)	PubMed Citation
Comparison of DNA-Reactive Metabolites from Nitrosamine and Styrene Using Voltammetric DNA/Microsome ...	Krishnan, Sadagopan; Bajrami, Besnik; Mani, Vigneshwaran; Pan, Shenmin; Rusling, James F	Electroanalysis (2009 May 1)	PubMed Citation
Control of electrochemical and ferryloxy formation kinetics of cyt P450s in polyion films by heme ir ...	Krishnan, Sadagopan; Abeykoon, Amila; Schenkman, John B; Rusling, James F	J Am Chem Soc (2009 Nov 11)	PubMed Citation
Detection of chemically induced DNA damage by derivative square wave voltammetry.	Mbindyo, J; Zhou, L; Zhang, Z; Stuart, J D; Rusling, J F	Anal Chem (2000 72 / 2059-65 May 1)	PubMed Citation
Detection of chemically induced DNA damage in layered films by catalytic square wave voltammetry usi ...	Zhou, L; Rusling, J F	Anal Chem (2001 73 / 4780-6 Oct 15)	PubMed Citation
Detection of labeled abasic sites in damaged DNA by capillary electrophoresis with laser-induced flu ...	Fundador, Erwin; Rusling, James	Anal Bioanal Chem (2007 Mar)	PubMed Citation
Determination of standard potentials and electron-transfer rates for halobiphenyls from electrocatal ...	Connors, T F; Rusling, J F; Owlia, A	Anal Chem (1985 57 / 170-4 Jan)	PubMed Citation
Differences in metabolite-mediated toxicity of tamoxifen in rodents versus humans elucidated with DN ...	Zhao, Linlin; Krishnan, Sadagopan; Zhang, Yun; Schenkman, John B; Rusling, James F	Chem Res Toxicol (2009 Feb)	PubMed Citation

Direct electrochemiluminescence detection of oxidized DNA in ultrathin films containing [Os(bpy)2(PV ...	Dennany, Lynn; Forster, Robert J; White, Blanaid; Smyth, Malcolm; Rusling, James F	J Am Chem Soc (2004 Jul 21)	126 / 8835-41	PubMed Citation
Direct voltammetry and catalysis with Mycobacterium tuberculosis catalase-peroxidase, peroxidases, a ...	Zhang, Zhe; Chouchane, Salem; Magliozzo, Richard S; Rusling, James F	Anal Chem (2002 Jan 1)	74 / 163-70	PubMed Citation
Driving forces for layer-by-layer self-assembly of films of SiO ₂ nanoparticles and heme proteins.	He, Pingli; Hu, Naifei; Rusling, James F	Langmuir (2004 Feb 3)	20 / 722-9	PubMed Citation
Effect of two mutations of human CYP1B1, G61E and R469W, on stability and endogenous steroid substr ...	Jansson, I; Stoilov, I; Sarfarazi, M; Schenkman, J B	Pharmacogenetics (2001 Dec)	11 / 793-801	PubMed Citation
Efficient bioelectronic actuation of the natural catalytic pathway of human metabolic cytochrome P45 ...	Krishnan, Sadagopan; Wasalathanthri, Dhanuka; Zhao, Linlin; Schenkman, John B; Rusling, James F	J Am Chem Soc (2011 Feb 9)	133 / 1459-65	PubMed Citation
Electroactive core-shell nanocluster films of heme proteins, polyelectrolytes, and silica nanopartic ...	Liu, Hongyun; Rusling, James F; Hu, Naifei	Langmuir (2004 Nov 23)	20 / 10700-5	PubMed Citation
Electrocatalytic reduction of ethylene dibromide by Vitamin B12 in a surfactant-stabilized emulsion.	Rusling, J F; Connors, T F; Owlia, A	Anal Chem (1987 Sep 1)	59 / 2123-7	PubMed Citation
Electrochemical Activation of the Natural Catalytic Cycle of Cytochrome P450s in Human Liver Microso ...	Wasalathanthri, Dhanuka P; Malla, Spundana; Faria, Ronaldo C; Rusling, James F	Electroanalysis (2012 Nov 1)	24 / 2049-2052	PubMed Citation
Electrochemical and electron spectroscopic studies of highly polished glassy carbon electrodes.	Kamau, G N; Willis, W S; Rusling, J F	Anal Chem (1985 Feb)	57 / 545-51	PubMed Citation
Electrochemical biosensor featuring a two-enzyme pathway and DNA for screening toxic reactive metabo ...	So, Minjeong; Schenkman, John B; Rusling, James F	Chem Commun (Camb) (2008 Sep 28)	/ 4354-6	PubMed Citation
Electrochemical catalysis with redox polymer and polyion-protein films.	Rusling, James F; Forster, Robert J	J Colloid Interface Sci (2003 Jun 1)	262 / 1-15	PubMed Citation
Electrochemical generation of ferrylmyoglobin during oxidation of styrene with films of DNA and a po ...	Kong, J; Mbundo, J N; Wu, X; Zhou, J X; Rusling, J F	Biophys Chem (1999 Jun 28)	79 / 219-29	PubMed Citation
Electrochemical genotoxicity screening for arylamines bioactivated by N-acetyltransferase.	So, Minjeong; Hvastkovs, Eli G; Bajrami, Besnik; Schenkman, John B; Rusling, James F	Anal Chem (2008 Feb 15)	80 / 1192-200	PubMed Citation

Electrochemiluminescent Array to Detect Oxidative Damage in ds-DNA Using [Os(bpy)2(phen-benz-COOH)](...	Bist, Itti; Song, Boya; ACS Sens (2016) 1 / 272-278 Mosa, Islam M; Keyes, Tia E; Martin, Aaron; Forster, Robert J; Rusling, James F		PubMed Citation
Electrochemiluminescent arrays for cytochrome P450-activated genotoxicity screening. DNA damage from ...	Hvastkovs, Eli G; So, Minjeong; Krishnan, Sadagopan; Bajrami, Besnik; Tarun, Maricar; Jansson, Ingela; Schenkman, John B; Rusling, James F	Anal Chem (2007 79 / 1897-906 Mar 1)	PubMed Citation
Electrochemiluminescent Arrays For Toxicity Screening.	Rusling, James F	Electrochem Soc Interface (2009) 18 / 34-39	PubMed Citation
Electrochemiluminescent/voltammetric toxicity screening sensor using enzyme-generated DNA damage.	So, Minjeong; Hvastkovs, Eli G; Schenkman, John B; Rusling, James F	Biosens Bioelectron (2007 Nov 30) 23 / 492-8	PubMed Citation
Electron transfer between myoglobin and electrodes in thin films of phosphatidylcholines and dihexad ...	Zhang, Z; Rusling, J F	Biophys Chem (1997 Jan 31) 63 / 133-46	PubMed Citation
Electron transfer from electrodes to myoglobin: facilitated in surfactant films and blocked by adsor ...	Nassar, A E; Willis, W S; Rusling, J F	Anal Chem (1995 67 / 2386-92 Jul 15)	PubMed Citation
Enzyme-DNA biocolloids for DNA adduct and reactive metabolite detection by chromatography-mass spect ...	Bajrami, Besnik; Hvastkovs, Eli G; Jensen, Gary C; Schenkman, John B; Rusling, James F	Anal Chem (2008 80 / 922-32 Feb 15)	PubMed Citation
Epoxidation of styrene by human cyt P450 1A2 by thin film electrolysis and peroxide activation compa ...	Estavillo, Carmelita; Lu, Zhongqing; Jansson, Ingela; Schenkman, John B; Rusling, James F	Biophys Chem (2003 May 1) 104 / 291-6	PubMed Citation
Evaluating enzymes that generate genotoxic benzo[a]pyrene metabolites using sensor arrays.	Wang, Bingquan; Jansson, Ingela; Schenkman, John B; Rusling, James F	Anal Chem (2005 77 / 1361-7 Mar 1)	PubMed Citation
Evaluation of electrochemiluminescent metabolic toxicity screening arrays using a multiple compound ...	Pan, Shenmin; Zhao, Linlin; Schenkman, John B; Rusling, James F	Anal Chem (2011 83 / 2754-60 Apr 1)	PubMed Citation
Expression patterns of mouse and human CYP orthologs (families 1-4) during development and in differ ...	Choudhary, Dharamainder; Jansson, Ingela; Stoilov, Ivaylo; Sarfarazi, Mansoor; Schenkman, John B	Arch Biochem Biophys (2005 Apr 1) 436 / 50-61	PubMed Citation

Fast reversible electron transfer for photosynthetic reaction center from wild type Rhodobacter spha ...	Kong, J; Sun, W; Wu, X; Deng, J; Lu, Z; Lvov, Y; Desamero, R Z; Frank, H A; Rusling, J F	Bioelectrochem Bioenerg (1999 Feb)	48 / 101-7	PubMed Citation
Films formed by oxidation of ferrocene at platinum electrodes.	Kamau, G N; Saccucci, T M; Gounili, G; Nassar, A E; Rusling, J F	Anal Chem (1994 Apr 1)	66 / 994-1001	PubMed Citation
Folding control and unfolding free energy of yeast iso-1-cytochrome c bound to layered zirconium pho ...	Bhamhani, Akhilesh; Chah, Soonwoo; Hvastkovs, Eli G; Jensen, Gary C; Rusling, James F; Zare, Richard N; Kumar, Challa V	J Phys Chem B (2008 Jul 31)	112 / 9201-8	PubMed Citation
Genotoxicity screening for N-nitroso compounds. Electrochemical and electrochemiluminescent detectio ...	Krishnan, Sadagopan; Hvastkovs, Eli G; Bajrami, Besnik; Jansson, Ingela; Schenkman, John B; Rusling, James F	Chem Commun (Camb) (2007 May 7)	/ 1713-5	PubMed Citation
Genotoxicity screening using biocatalyst/DNA films and capillary LC-MS/MS.	Tarun, Maricar; Bajrami, Besnik; Rusling, James F	Anal Chem (2006 Jan 15)	78 / 624-7	PubMed Citation
Genotoxicity sensor response correlated with DNA nucleobase damage rates measured by LC-MS.	Yang, Jing; Wang, Bingquan; Rusling, James F	Mol Biosyst (2005 Sep)	1 / 251-9	PubMed Citation
Genotoxicity-related chemistry of human metabolites of benzo[ghi]perylene (B[ghi]P) investigated usi ...	Pan, Shenmin; Li, Dandan; Zhao, Linlin; Schenkman, John B; Rusling, James F	Chem Res Toxicol (2013 Aug 19)	26 / 1229-39	PubMed Citation
High-throughput metabolic genotoxicity screening with a fluidic microwell chip and electrochemiluminin ...	Wasalathantri, Dhanuka P; Malla, Spundana; Bist, Itti; Tang, Chi K; Faria, Ronaldo C; Rusling, James F	Lab Chip (2013 Dec 7)	13 / 4554-62	PubMed Citation
High-throughput metabolic toxicity screening using magnetic biocolloid reactors and LC-MS/MS.	Zhao, Linlin; Schenkman, John B; Rusling, James F	Anal Chem (2010 Dec 15)	82 / 10172-8	PubMed Citation
Human cyt P450 mediated metabolic toxicity of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) e ...	Krishnan, Sadagopan; Hvastkovs, Eli G; Bajrami, Besnik; Schenkman, John B; Rusling, James F	Mol Biosyst (2009 Feb)	5 / 163-9	PubMed Citation
Immunochemical Assays and Nucleic-Acid Detection Techniques for Clinical Diagnosis of Prostate Cance ...	Kanyong, Prosper; Rawlinson, Sean; Davis, James	J Cancer (2016)	7 / 523-31	PubMed Citation

Ligand-Free Noble Metal Nanocluster Catalysts on Carbon Supports via "Soft" Nitriding.	Liu, Ben; Yao, Huiqin; Song, Wenqiao; Jin, Lei; Mosa, Islam M; Rusling, James F; Suib, Steven L; He, Jie	J Am Chem Soc (2016 Apr 13)	138 / 4718-21	PubMed Citation
Measuring DNA nucleobase adducts using neutral hydrolysis and liquid chromatography-mass spectrometry ...	Tarun, Maricar; Rusling, James F	Crit Rev Eukaryot Gene Expr (2005)	15 / 295-316	PubMed Citation
Metabolic toxicity screening using electrochemiluminescence arrays coupled with enzyme-DNA biocolloidal ...	Hvastkovs, Eli G; Schenkman, John B; Rusling, James F	Annu Rev Anal Chem (Palo Alto Calif) (2012)	5 / 79-105	PubMed Citation
Metabolism of retinoids and arachidonic acid by human and mouse cytochrome P450 1b1.	Choudhary, Dharamaider; Jansson, Ingela; Stoilov, Ivaylo; Sarfarazi, Mansoor; Schenkman, John B	Drug Metab Dispos (2004 Aug)	32 / 840-7	PubMed Citation
Microfluidic array for simultaneous detection of DNA oxidation and DNA-adduct damage.	Song, Boya; Shen, Min; Jiang, Di; Malla, Spundana; Mosa, Islam M; Choudhary, Dharamaider; Rusling, James F	Analyst (2016 Oct 21)	141 / 5722-5729	PubMed Citation
Microfluidic electrochemical array for detection of reactive metabolites formed by cytochrome P450 e ...	Wasalathanthri, Dhanuka P; Mani, Vigneshwaran; Tang, Chi K; Rusling, James F	Anal Chem (2011 Dec 15)	83 / 9499-506	PubMed Citation
Microsome biocolloids for rapid drug metabolism and inhibition assessment by LC-MS.	Bajrami, Besnik; Krishnan, Sadagopan; Rusling, James F	Drug Metab Lett (2008 Aug)	2 / 158-62	PubMed Citation
Molecular dynamics simulations of polyelectrolyte multilayering on a charged particle.	Panchagnula, Venkateswarlu; Jeon, Junhwan; Rusling, James F; Dobrynin, Andrey V	Langmuir (2005 Feb 1)	21 / 1118-25	PubMed Citation
Optimization of electrochemical and peroxide-driven oxidation of styrene with ultrathin polyion film ...	Munge, Bernard; Estavillo, Carmelita; Schenkman, John B; Rusling, James F	Chembiochem (2003 Jan 3)	4 / 82-9	PubMed Citation
Oscillating formation of 8-oxoguanine during DNA oxidation.	White, Blanaid; Smyth, Malcolm R; Stuart, James D; Rusling, James F	J Am Chem Soc (2003 Jun 4)	125 / 6604-5	PubMed Citation

Oxidised guanidinothydantoin (Ghox) and spiroiminodihydantoin (Sp) are major products of iron- and co ...	White, Blanaid; Tarun, Maricar C; Gathergood, Nicholas; Rusling, James F; Smyth, Malcolm R	Mol Biosyst (2005 Dec)	1 / 373-81	PubMed Citation
Paper-based electrochemiluminescent screening for genotoxic activity in the environment.	Mani, Vigneshwaran; Kadimisetty, Karteek; Malla, Spundana; Joshi, Amit A; Rusling, James F	Environ Sci Technol (2013 Feb 19)	47 / 1937-44	PubMed Citation
Protecting peroxidase activity of multilayer enzyme-polyion films using outer catalase layers.	Lu, Haiyun; Rusling, James F; Hu, Naifei	J Phys Chem B (2007 Dec 27)	111 / 14378-86	PubMed Citation
Protein film electrochemistry of microsomes genetically enriched in human cytochrome p450 monooxygen ...	Sultana, Nasreen; Schenkman, John B; Rusling, James F	J Am Chem Soc (2005 Oct 5)	127 / 13460-1	PubMed Citation
Quantitative measurement of DNA adducts using neutral hydrolysis and LC-MS. Validation of genotoxic ...	Tarun, Maricar; Rusling, James F	Anal Chem (2005 Apr 1)	77 / 2056-62	PubMed Citation
Rapid LC-MS drug metabolite profiling using microsomal enzyme bioreactors in a parallel processing f ...	Bajrami, Besnik; Zhao, Linlin; Schenkman, John B; Rusling, James F	Anal Chem (2009 Dec 15)	81 / 9921-9	PubMed Citation
Regression analysis of electrochemical data with expanding space grid digital simulation at spherica ...	Arena, J V; Rusling, J F	Anal Chem (1986 Jun)	58 / 1481-8	PubMed Citation
Roles of cytochrome p450 in development.	Stoilov, I; Jansson, I; Sarfarazi, M; Schenkman, J B	Drug Metabol Drug Interact (2001)	18 / 33-55	PubMed Citation
Salt and pH effects on electrochemistry of myoglobin in thick films of a bilayer-forming surfactant.	Nassar, A E; Rusling, J F; Kumosinski, T F	Biophys Chem (1997 Sep 1)	67 / 107-16	PubMed Citation
Scanning electrochemical microscopy of living cells. 3. Rhodobacter sphaeroides.	Cai, Chenxin; Liu, Biao; Mirkin, Michael V; Frank, Harry A; Rusling, James F	Anal Chem (2002 Jan 1)	74 / 114-9	PubMed Citation
Screening for reactive metabolites using electro-optical arrays featuring human liver cytosol and mi ...	Zhao, Linlin; Schenkman, John B; Rusling, James F	Chem Commun (Camb) (2009 Sep 28)	/ 5386-8	PubMed Citation
Screening reactive metabolites bioactivated by multiple enzyme pathways using a multiplexed microflu ...	Wasalathanthri, Dhanuka P; Faria, Ronaldo C; Malla, Spundana; Joshi, Amit A; Schenkman, John B; Rusling, James F	Analyst (2013 Jan 7)	138 / 171-8	PubMed Citation
Sensors for toxicity of chemicals and oxidative stress based on electrochemical catalytic DNA oxidat ...	Rusling, James F	Biosens Bioelectron (2004 Nov 15)	20 / 1022-8	PubMed Citation

Simulation of two-electron homogeneous electrocatalysis for steady-state voltammetry at hemispherica ...	Miaw, C L; Rusling, J F; Owlia, A	Anal Chem (1990 62 / 268-73 Feb 1)	PubMed Citation
Simultaneous direct electrochemiluminescence and catalytic voltammetry detection of DNA in ultrathin ...	Dennany, Lynn; Forster, Robert J; Rusling, James F	J Am Chem Soc 125 / 5213-8 (2003 Apr 30)	PubMed Citation
Square wave voltammetric detection of chemical DNA damage with catalytic poly(4-vinylpyridine)-Ru(bp ...	Mugweru, Amos; Rusling, James F	Anal Chem (2002 74 / 4044-9 Aug 15)	PubMed Citation
Stable films of cationic surfactants and phthalocyaninetetrasulfonate catalysts.	Hu, N; Howe, D J; Ahmadi, M F; Rusling, J F	Anal Chem (1992 64 / 3180-6 Dec 15)	PubMed Citation
State-of-the-Art Metabolic Toxicity Screening and Pathway Evaluation.	Hvastkovs, Eli G; Rusling, James F	Anal Chem (2016 88 / 4584-99 May 3)	PubMed Citation
Surfactant-intercalated clay films for electrochemical catalysis. Reduction of trichloroacetic acid.	Hu, N F; Rusling, J F	Anal Chem (1991 63 / 2163-8 Oct 1)	PubMed Citation
Synergistic metabolic toxicity screening using microsome/DNA electrochemiluminescent arrays and nano ...	Krishnan, Sadagopan; Hvastkovs, Eli G; Bajrami, Besnik; Choudhary, Dharamainder; Schenkman, John B; Rusling, James F	Anal Chem (2008 80 / 5279-85 Jul 15)	PubMed Citation
Thin film voltammetry of metabolic enzymes in rat liver microsomes.	Krishnan, Sadagopan; Rusling, James F	Electrochem commun (2007 9 / 2359-2363 Sep)	PubMed Citation
Thin multicomponent films for functional enzyme devices and bioreactor particles.	Rusling, James F; Wasalathanthri, Dhanuka P; Schenkman, John B	Soft Matter (2014 10 / 8145-56 Nov 7)	PubMed Citation
Toxicity screening by electrochemical detection of DNA damage by metabolites generated in situ in ul ...	Zhou, Liping; Yang, Jing; Estavillo, Carmelita; Stuart, James D; Schenkman, John B; Rusling, James F	J Am Chem Soc 125 / 1431-6 (2003 Feb 5)	PubMed Citation
Ultrasensitive detection of cancer biomarkers in the clinic by use of a nanostructured microfluidic ...	Malhotra, Ruchika; Patel, Vyomesh; Chikkaveeraiah, Bhaskara V; Munge, Bernard S; Cheong, Sok Ching; Zain, Rosnah B; Abraham, Mannil T; Dey, Dipak K; Gutkind, J Silvio; Rusling, James F	Anal Chem (2012 84 / 6249-55 Jul 17)	PubMed Citation

Ultrathin layered myoglobin-polyion films functional and stable at acidic pH values.	Panchagnula, Venkateswarlu; Kumar, Challa V; Rusling, James F	J Am Chem Soc (2002 Oct 23)	124 / 12515-21	PubMed Citation
Voltammetric microwell array for oxidized guanosine in intact ds-DNA.	Song, Boya; Pan, Shenmin; Tang, Chi; Li, Dandan; Rusling, James F	Anal Chem (2013 Nov 19)	85 / 11061-7	PubMed Citation
Voltammetric sensor for chemical toxicity using [Ru(bpy)2poly(4-vinylpyridine)10Cl] ⁺ as catalyst in ...	Wang, Bingquan; Rusling, James F	Anal Chem (2003 Aug 15)	75 / 4229-35	PubMed Citation
Voltammetric sensor for oxidized DNA using ultrathin films of osmium and ruthenium metallocopolymers.	Mugweru, Amos; Wang, Bingquan; Rusling, James	Anal Chem (2004 Sep 15)	76 / 5557-63	PubMed Citation
Wiring of enzymes to electrodes by ultrathin conductive polyion underlayers: enhanced catalytic resp ...	Yu, Xin; Sotzing, Gregory A; Papadimitrakopoulos, Fotios; Rusling, James F	Anal Chem (2003 Sep 1)	75 / 4565-71	PubMed Citation